Result Demonstration Report

2013 Herbicide Comparison Study for Controlling Brush in Fencerows

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Summary

Herbicides have been proven to be an effective method for controlling brush in fencerows for many years. Producers face many choices when selecting various products to be used in either forage systems or fencerows for adequate control of brush and other woody species.

Objective

The objective of this result demonstration was to compare the herbicide effectiveness on Brush in fencerows.

Materials and Methods

Material and rates of herbicides used for this experiment is shown in Table 1. The trial was a strip trial that was not replicated. Plots were treated on June 3, 2013 using backpack sprayers at the equivalency of 100 gallons per acre. The fencerow plots were 25 feet long and they were spray with a 1 gallon tank mix.

Time: 10:45-12:55
Air Temperature: 77°
Soil Temperature: 81°
Relative Humidity: 63%
Wind: South to Southeast at 1.3 MPH
Cloud Cover: 5%

Table I. Herbicide, Rates, and Surfactant Used In Study

Plot	Herbicide	Rate per Gallon	Surfactant per Gallon
1	Remedy Ultra @ 2%	2.56 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
2	PastureGard HL @ 2%	2.56 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
3	Remedy Ultra @ 2% + Chaparral@ 6.5 oz. / 100gal.	2.56 oz. + 0.065 oz/gal	.321 oz. /gallon (32 oz. / 100 gal.)
4	Remedy Ultra @ 2% + Grazon Next HL @ 2%	2.56 oz. +2.56 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
5	Surmount @ 2%	2.56 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
6	Remedy Ultra @ 1 + Cimarron Plus @ 1.0 oz.	1.28 oz. + 1.0 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
7	DPX-MAT 28 @ 2.5 oz./100 gal	2.5 oz./100 gallon	.321 oz. /gallon (32 oz. / 100 gal.)
8	DPX-MAT 28 @ 4.0 oz./100 gal	4.0 oz./100 gallon	.321 oz. /gallon (32 oz. / 100 gal.)
9	Velpar L @ 2 gallon/mile	1.21 oz.	.321 oz. /gallon (32 oz. / 100 gal.)
10	Remedy Ultra @ 25% - 75% Diesel	1 qt. RU +3 qtrs. Diesel	0
11	Control		

Results and Discussion

Plots were treated on June 3, 2013 using backpack sprayers at the equivalency of 100 gallons per acre. *The fence row demonstration consisted of species such as oak, hickory, elm, sumac, green briar, and dewberry.* Ratings were taken after treatment at approximately 120 Days. The results are in Table II. Table III shows the cost of each individual treatment for 1 gallon of tank mix.

Table II. Percent Control for 120 Days after Treatment

Plot	Brush Species Controlled	120 Days After Treatment
1 = Remedy Ultra @ 2%	Mixed Species	70%
2 = PastureGard HL@ 2%	Mixed Species	90%
3 = Remedy Ultra @ 2% + Chaparral @ 6.5 oz. / 100 gal.	Mixed Species	40%
4 = Remedy Ultra @ 2% + Grazon Next HL @ 2%	Mixed Species	95%
5 = Surmount @ 2%	Mixed Species	60%
6 = Remedy Ultra @ 1%+ Cimarron Plus @ 1.0 oz.	Mixed Species	30%
7 = DPX-MAT 28 @ 2.5 oz./100 gal	Mixed Species	30%
8 = DPX-MAT 28 @ 4.0 oz./100 gal	Mixed Species	30%
9 = Velpar L @ 2 gallon/mile	Mixed Species	30%
Remedy Ultra @ 25% - 75% Diesel	Mixed Species	100%
11 = Control	Mixed Species	0%

Table III. 2013 Fence Line Control Demonstration Cost/Gallon

Chemical (s) and Application Rates	Cost ($) Per Container*	Cost Per Ounce	Cost Per 1gallon Tank Mix
Remedy Ultra @ 2% = 2.56 oz.	$70.00/gal	$0.55/ounce	$1.40
PastureGard HL @ 2% = 2.56 oz.	110.00/gal	$0.86	2.20
Remedy Ultra @ 2% = 2.56 oz. + Chaparral @ 6.5 oz. / 100 gal.	$70.00/gal + $86.92/lb.	$0.55 $5.43	$1.40 + 0.35 = $1.75
Remedy Ultra @ 2% = 2.56 oz. + Grazon Next HL @ 2% =2.56 oz.	$70.00/gal + $92.00/2 gal	$0.55 $0.36	$1.40 +$0.92 = $2.32
Surmount @ 2% =2.56 oz.	$137.50/2.5gal	$0.43	$1.10
Remedy Ultra @ 1% = 1.28/oz.+ Cimarron Plus @ 1.0 oz.	$70.00/gal + $11.80/ounce	$0.55	$0.70 + $11.80 = 12.50
DPX-MAT 28 @ 2.5 oz./100 gal	Numbered Product Not on Market		
DPX-MAT 28 @ 4.0 oz./100 gal	Numbered Product Not on Market		
Velpar L @ 2 gallon/mile = 1.21 oz.	$89.10/ 1 gal	$0.70	$0.85
Remedy Ultra (32oz) @ 25% - 75% Diesel (96oz)	$70.00 + $4.00/gal	$.055 + $0.03	17.50 + 2.88 = $20.38

***** Costs from Red River Specialties (December 2, 2013) for Herbicide Only no Surfactant

Remedy Ultra = $70.00per 1.0/gal = $70.00/128 = $0.55/ounce

PastureGard HL = $110.00/gal = $110.00/128 = $0.86/ounce

Chaparral = $86.92/pound = $86.92/16oz = $5.43/ounce

Surmount =$55.00/gal or $137.50 per 2.5/gal = $137.50 / 320 = $0.43/ounce

Grazon Next HL = $92.00 per 2.0/gal. = $92.00 / 256 = $0.36/ounce

Cimarron Plus = $11.80/ounce

Velpar = $89.10/1.0gal = $89.10/128 = $.070/ounce

Remedy Ultra and Diesel = $.055/oz. X 32oz =$17.5 for Remedy Ultra – Diesel = $4.00/gal = $4.00/128 oz. = $0.03 x 96oz =$2.88

Conclusions

This is the second year of a three year multi-county research trail. Very positive results have occurred. Herbicides have proven to be an effective way of controlling weed and brush species in fencerows.

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